

BELL H-13 SIOUX

H-13 SERVICE

Manufacturer: Bell Aircraft Corp., Buffalo, New York, USA
(In 1951, became Bell Helicopter Corp. of Bell Aircraft Corp.,
Fort Worth, Texas, USA)
(In 1960, became Bell Helicopter Co., Textron Corp.)

Models: 47, 201, 207

Designations: H-13 (OH-13, UH-13); HTL; HUL; R-13

Names: Sioux; Sioux Scout (Model 207), Bellairus (Model 47H),
Ranger (Model 47J)

First official flight: Model 47 08 Dec 1945

Factory production period: 1945 – 1973

Primary service period: 1946 – 1976

Last official flight: - -

H-13 VARIANTS

1945	Model 47	Model 47	11	Total: 0011
1946	Model 47B	Model 47B	78	
1948	Model 47D	Model 47D	195	
1953	Model 47G	Model 47G	1962	
1955	Model 47H	Model 47H	33	
1957	Model 47J	Model 47J	314	Total: 2582
1946	Model 47A	XR-13	28	
1948	Model 47D	H-13B	65	
1951	Model 47D-1	H-13D	87	
1951	Model 47D-1	H-13E	490	
1953	Model 47G	H-13G	265	
1955	Model 47G-2	H-13H	470	
1957	Model 47J-1	H-13J	2	
1963	Model 47G-3B	OH-13S	396	
1963	Model 47G-3B-2	TH-13T	419	Total: 2222
1949	Model 47D	HTL-2	12	
1950	Model 47E	HTL-3	12	
1950	Model 47D-1	HTL-4	46	
1951	Model 47D-1	HTL-5	36	
1955	Model 47G	HTL-6	48	
1958	Model 47K	HTL-7	18	Total: 0172
1955	Model 47J	HUL-1	28	
-	Model 47L	HUL-1M	2	Total: 0030
				<u>Total: 5017</u>

<i>Foreign built – England:</i>			
1965	Model 47G-3B-1	Sioux AH.Mk. 1	222
1967	Model 47G-3B-1	Sioux HT.Mk. 2	15
1969	Model 47G-4A	Model 47G-4A	16
			Total: 0253
<i>Foreign built – Italy:</i>			
1964	Model 47G	Model 47G	506
1964	Model 47J	Model 47J	275
			Total: 0781
<i>Foreign built – Japan:</i>			
1964	Model 47D / G	Model 47D / G	543
			Total: 0543
			<u>Total: 1577</u>

Grand Total: 6594

H-13 VARIANTS – TYPE COMPARISON

<u>Civil</u>		<u>US Army</u>		<u>US Navy</u>		<u>USAF</u>	
Model 47	11	-		-		-	
Model 47A	-	XR-13	28	HTL-1	10	-	
Model 47B	78	-		-		-	
Model 47D	195	H-13B	65	HTL-2	12	-	
Model 47D-1	-	H-13D	87	-		-	
		H-13E	490	HTL-4	46	-	
				HTL-5	36	-	
Model 47E	-	-		HTL-3	12	-	
Model 47G	208	H-13G	265	HTL-6	48	-	
Model 47G-2	410	H-13H	470	-		-	
Model 47G-3	653	OH-13S	396	-		TH-13T	419
Model 47G-4	355	-		-		-	
Model 47G-5	336	-		-		-	
Model 47H	33	-		-		-	
Model 47J	314	-		HUL-1	28	H-13J	2
Model 47K	-	-		HTL-7	18	-	
Model 47L	-	-		HUL-1M	2	-	
Total: 2593		Total: 1801		Total: 202		Total: 421	

H-13 PRODUCTION

Civil Helicopters

Model 47 / 47B / 47D / 47G / 47H / 47J

Prototype commercial utility helicopter. C/n: mixed 1 to 7976, 25001 / 25160 including both civil and military export versions.

Model 47B had a "car" style fuselage design.
 Model 47D, G introduced the classic design
 features: large bubble canopy, open tail boom
 and on the G model twin podded fuel tanks.
 Model 47H / J were luxury versions.

produced 1945 – 1973

Bell Buffalo, New York

Model 47		11	
Model 47B / -2 / -3		78	
Bell Fort Worth, Texas			
Model 47D / -1		195	
Model 47G		208	
Model 47G-2 / -2A / -2A-1		410	
Model 47G-3 / -3B / -3B-1 / -3B-2 / -3B-2A		653	
Model 47G-4 / -4A		355	
Model 47G-5 / -5A		336	
Model 47H / -1 Bellairus		33	
Model 47J / -2 / -2A Ranger		314	Total: 2593

Military Helicopters

XR-13

Prototype single-engined, 2-bladed rotor,
 2-seater, utility helicopter for US Army.
 Bubble canopy, dual controls, 4-wheeled u/c.
 10 to USN as **HTL-1**, BuNo. 122452 / 122461,
 with 2 later to USCG. Redesignated as
YH-13 in 1948.

produced

Bell Buffalo, New York (BE)

46-227 / 46-254 1 / 28 28 **Total: 0028**

H-13B

As YH-13, bubble canopy with
 removable top, engine upgrade.

produced

Bell Buffalo, New York (BE)

48-796 / 48-799 101 / 104

48-800 / 48-820 80 / 100

48-821 / 48-860 105 / 144 65 **Total: 0065**

H-13D

As H-13C, classic design features
 introduced: 3-seater bubble canopy,
 open tail boom, skid u/c, engine
 upgrade, single controls.

produced

Bell Fort Worth, Texas (BF)

51-2446 / 51-2531 184 / 327

51-16642 - 87 **Total: 0087**

H-13E

As H-13D, dual controls.

produced

Bell Fort Worth, Texas (BF)

51-13742 / 51-14231 mixed 328 to 1006 490 **Total: 0490**

H-13G

*As H-13E, boom elevator, dual
podded fuel tanks, single controls.
produced*

Bell Fort Worth, Texas (BF)

51-14232 / 51-14241

1007 / 1016

52-7790 / 52-7993

mixed 1017 to 1271

53-3654 / 53-3674

mixed 1168 to 1212

53-3785 / 53-3814

mixed 1223 to 1262

265 **Total: 0265**

H-13H

*As H-13G, engine upgrade,
curved skids, dual controls.
produced*

Bell Fort Worth, Texas (BF)

55-3355, 55-3356

1326, 1327

55-4613 / 55-4633

1642 / 1662

56-2161 / 56-2244

1873 / 1956

57-1792 / 57-1875

2030 / 2113

57-6203 / 57-6244

2132 / 2173

58-1497 / 58-1552

2261 / 2316

58-5304 / 58-5395

2317 / 2408

58-6984 / 58-6998

2479 / 2493

- 15 to Austria as 3B-HA / -HO.

59-4911 / 59-4972

2494 / 2555

60-6035 / 60-6046

2682 / 2693

470 **Total: 0470**

H-13J *Ranger*

*As H-13H, 4-seater redesigned canopy,
tail boom, engine upgrade. Acquired by
USAF for Presidential duties.
Also designated as **VH-13J**.*

produced

Bell Fort Worth, Texas (BF)

57-2728, 57-2729

1575, 1576

2 **Total: 0002**

OH-13S

*As H-13H, engine upgrade, longer
boom and rotors.*

produced

Bell Fort Worth, Texas (BF)

63-9072 / 63-9221

2958 / 3107

63-13668 / 63-13685

3168 / 3185

64-15318 / 64-15432

3186 / 3300

65-13005 / 65-13020

mixed 3901 to 3916

66-15998, 66-15999

3917, 3918

67-15870 / 67-15908

3919 / 3957

69-16380 / 69-16391

3958 / 3969

69-19590 / 69-19633

3970 / 4013

396 **Total: 0396**

152 additional airframes cancelled.

TH-13T

*As OH-13S, instrument trainer version
for USAF, engine / avionics upgrade.
produced*

Bell Fort Worth, Texas (BF)

64-17845 / 64-17904	3411 / 3470	
65-8038 / 65-8080	3471 / 3513	
66-4273 / 66-4298	3514 / 3539	
66-8040 / 66-8130	3540 / 3630	
67-15912 / 67-15965	3631 / 3684	
67-17003 / 67-17143	<i>mixed</i> 3685 to 3850	
67-17882 / 67-17885	-	419

Total: 0419

1 additional airframe cancelled.

HTL-2

*As H-13B, US Navy trainer.
produced 1949*

Bell Fort Worth, Texas (L)

BuNo. 122952 / 122963	59 / 70	
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Total: 0012

HTL-3

*As H-13D, US Navy trainer.
produced 1950 – 1951*

Bell Fort Worth, Texas (L)

BuNo. 124561 / 124569	165 / 173	
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BuNo. 144693 / 144695	-	12
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Total: 0012

- 3 to Brazil.

HTL-4

*As HTL-3, dual controls.
produced 1950 – 1951*

Bell Fort Worth, Texas (L)

BuNo. 128621 / 128636	<i>mixed</i> 182 to 219	
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- 1 to USCG.

BuNo. 128887 / 128916	-	46
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Total: 0046

HTL-5

*As H-13E, US Navy trainer,
4-wheeled u/c.
produced 1951 – 1952*

Bell Fort Worth, Texas (L)

BuNo. 129942 / 129977	<i>mixed</i> 403 to 476	36
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- 3 to USCG as 1268 / 1270.

Total: 0036

HTL-6

*As H-13G, US Navy trainer,
dual controls.
produced 1955 – 1956*

Bell Fort Worth, Texas (L)

BuNo. 142373 / 142396	<i>mixed</i> 1331 to 1510	
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- 1 to RCN as 1387.

BuNo. 143148 / 143171	1663 / 1686	48
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Total: 0048

HTL-7

*As H-13J, smaller US Navy
2-seater trainer. 2 to USCG.
produced 1958*

Bell Fort Worth, Texas (L)

BuNo. 145837 / 145854	2114 / 2131	18
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Total: 0018

HUL-1

As H-13J, US Navy 4-seater utility version.

produced

Bell Fort Worth, Texas (L)

BuNo. 142364 / 142372 1419, 1594 / 1601

BuNo. 143134 / 143147 1602 / 1615

BuNo. 147578 / 147581 -

BuNo. 148277 -

28 **Total: 0028**

- Export order.

1 additional airframe cancelled.

HUL-1M

As HUL-1, turbine engine upgrade.

produced

Bell Fort Worth, Texas (L)

BuNo. 149838, 149839 1832, 1833

2 **Total: 0002**

HUL-2 – Proposed turboshaft version of the HUL-1, cancelled.

Total: 5017

Foreign built – England:

Sioux Series

Military / civil version.

produced 1965 – 1969

Westland Helicopters Ltd., Yeovil,
Somerset, England

Sioux AH.Mk. 1

1965, for British Army.

(British Army)

XT151 / XT250 WA310 / WA409

XT498 / XT516 WA410 / WA428

XT540 / XT570 WA429 / WA459

XT798 / XT820 WA505 / WA527

XT824 WA579

XT825 / XT838 WA586 / WA599

XT839 / XT849 WA601 / WA611

XW179 / XW195 WA699 / WA715 216

(South Yemen)

401 / 406 WA580 / WA585 6

Sioux HT.Mk. 2

1967, dual-control trainer version.

(British Army)

XV310 / XV324 WA564 / WA578 15

Model 47G-4A

1969, commercial version for Bristow Helicopters to train Army pilots.

civil reg. WA716 / WA731 16 **Total: 0253**

Foreign built – Italy:

Model 47G / 47J Series

*Model 47G / J for military
and civil service.*

produced 1964 – 1979

(Agusta-Bell)

*Costruzioni Aeronautiche Giovanni Agusta SpA,
Gallarate, Italy*

Model AB.47G

Model AB.47G-1 / -2 / -2A-1

civil / mil reg. 001 / 304 304

Model AB.47G-3 / -3B / -3B-1 Super Alpino

civil / mil reg. 1501 / 1643 143

*- 50 to British Army as **Sioux***

***AH.Mk. 1**, XT101 / XT150.*

Model AB.47G-4 / -4A

civil / mil reg. 2501 / 2559 59

Model AB.47J-2 Ranger

Model AB.47J-3 Super Ranger

Model AB.47J-3B-1 Ranger

civil / mil reg. 1001 / 1152

civil / mil reg. 2001 / 2123

275 **Total: 0781**

Foreign built – Japan:

Model 47D / 47G Series

*Model 47D / G for military
and civil service.*

produced 1964 – 1976

Kawasaki Heavy Industries Ltd., Gifu, Japan

Model 47D-1 / 47G-2 / -2A

1964, Model 47D, G version.

civil / mil reg. 101 / 280

*- 75 **G-2** to JGSDF as 30101 / 30175.*

civil / mil reg. 501 / 533

*- 8 **G-2A** to JMSDF as 8751 / 8758.*

civil / mil reg. 0000

civil / mil reg. 1001 / 1024 338

Model 47G-3B-KH-4

4-seater version, larger cabin.

*5 converted from **Model 47G-2** with*

new c/n: 2090, 2112, 2179 / 2181.

*1 upgraded to **KHR-1** in 1968.*

civil / mil reg. 2000 / 2210

205 **Total: 0543**

- 19 to JGSDF as 30201 / 30219.

Total: 1577

H-13 CONVERSIONS & TRANSFERS

US Army

YR-13A 3 XR-13, 1947, conversions for cold weather duties.

(YH-13A) 3 1948, redesignation of the YR-13A.

YH-13C	1	H-13B, 1950, rear fuselage coverings removed, skid u/c.
H-13C	15	H-13B, 1950, same as YH-13C, addition of external stretchers.
H-13K	2	H-13H, 1960, engine upgrade / larger rotor for altitude tests.

(Model 201) XH-13F

1	H-13G (52-7974), 1955, prototype with turbine engine upgrade.
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Model 207 Sioux Scout

1	Model 47J-2 / OH-13S, 1963, prototype 2-seater gunship, engine upgrade, assigned civil reg: N73927.
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Sioux Scout 1+ OH-13S, 1965-1971, generic name for Vietnam gunship conversions.

Sioux Warrior

1+	various H-13, 1953, generic name for various armed conversions.
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USCG

HUL-1G	2	HUL-1, 1959, diversions to the USCG as 1337, 1338.
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US Army / USAF / US Navy (1962 redesignations)

OH-13D	1+	1962, US Army redesignation of the H-13D.
OH-13E	1+	1962, US Army redesignation of the H-13E.
OH-13G	1+	1962, US Army redesignation of the H-13G.
OH-13H	1+	1962, US Army redesignation of the H-13H.
UH-13H	1+	1962, USAF redesignation of the H-13H.
UH-13J	2	1962, USAF redesignation of the H-13J.
OH-13K	1+	1962, US Army redesignation of the H-13K.
TH-13L	1+	1962, US Navy redesignation of the HTL-4 / -5.
TH-13M	1+	1962, US Navy redesignation of the HTL-6.
TH-13N	1+	1962, US Navy redesignation of the HTL-7.
(HH-13N)	2	1962-1968, USCG redesignation of the TH-13N.
UH-13P	1+	1962, US Navy redesignation of the HUL-1.
HH-13Q	2	1962, USCG redesignation of the HUL-1G.
UH-13R	2	1962, US Navy redesignation of the HUL-1M.

FOREIGN MILITARY / CIVILIAN SERVICE

- *The Bell Model 47 has become a classic helicopter design in both its civil and military role with many still serving today in many parts of the world.*
- *Experimental conversions included the **Rigid Rotor**, **Vertol 76 (VZ-2)** and **Wing Ding**. Some also to NASA for tests and training.*
- *Civil upgrades included the **Carson Super C-4**, **Continental Copters El Tomcat**, **Texas Helicopters M-79T Hornet**, **Agusta A.115** and **Elicotteri Meridionali EMA.124**.*